

**FORM PTO-1449 U.S. Department of  
Commerce Patent and Trademark Office**

ATTY. DOCKET NO.

**SERIAL NO.**

**520.36525CX2**

**09/986,087**

**APPLICANT**

O. KAWAMAE, et al

FILING DATE

**November 7, 2001**

**GROUP**

2616

**U.S. PATENT DOCUMENTS**

[illegible]

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT	
													YES	NO
/T.H./	0	7	1	3	1	4	4	3	5/95	Japan			XX	
↓	0	1	2	0	2	9	4	7	8/89	Japan			XX	
	6	1	1	9	4	9	3	3	8/86	Japan			XX	
	0	8	2	0	4	5	7	3	8/96	Japan			XX	
	0	8	2	5	6	1	0	4	10/96	Japan			XX	
	5	8	1	1	6	8	2	5	7/83	Japan			XX	
/T.H./	6	2	1	3	1	6	3	6	6/87	Japan			XX	

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**


**EXAMINER** /Thai Hoang/

**DATE CONSIDERED** 09/12/2007

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(Form PTO-1449 [6-4])

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/T.H./	5	3	8	4	7	8	7		1/95	Yoshinaka			
	5	6	2	3	4	6	7		4/97	Kato et al			
	5	7	4	5	5	0	5		4/98	Yonemitsu et al			
	5	8	8	1	0	3	7		3/99	Tanaka et al			
	5	9	9	1	5	0	2		11/99	Kawakami et al			
/T.H./	6	0	0	5	6	4	3		12/99	Morimoto et al			

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2661

1c971 U.S. PTO  
09/985087



**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
T.H./	5 9 6 0 0 8 1	9/99	Vynne et al	380	10	
↓	5 7 2 1 7 8 8	2/98	Powell et al	382	100	
↓	5 9 0 5 8 1 9	5/99	Daly	382	284	
↓	5 5 6 8 5 7 0	10/96	Rabbani	382	238	
T.H./	6 0 0 5 6 4 3	12/99	Morimoto			

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T.H./	6 6 3 2 9	1/94	Japan			XX	
↓	9 8 2 7 5 1 0	6/98	PCT				
↓	8 4 0 5 1 3	5/98	European				
T.H./	8 0 5 6 0 0	11/97	European				

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T.H./	Bender et al, Techniques for Data Hiding, IBM Systems Journal, vol. 35, Nos. 3 & 4, 1996, pp. 313-335.
↓	K. Kido, et al "Improvement of MRI Image Quality by a Directional Adaptive Filter", Systems and Computers in Japan, vol. 28, No. 10, 1997, 99-69-76.
↓	Papers of IEICE of Japan, D-II vol. J79-D-II, No. 8, pp. 1347-1353.
↓	JPEG Compression: "Digital Compression and Continuous-Tone Still Images", ISO/IEC/0918-1
↓	Bors and Pitas: "Image Watermarking using DCT Domain Constraints" Proceeding of 3rd IEEE International Conference on Image Processing, 16-19 September 1996, pages 231-234.
↓	Nikkei Electronics 1997.2.24 (683) pp. 99-107 "Digital Watermark protects multi-media age"
T.H./	W. Pennebake et al, "Still Image Data Compression Standard" JPEG, pp. 336-353.

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T.H./	5 7 3 7 4 1 7	4/98	Buynak et al			
↓	5 8 2 2 4 2 5	10/98	Ezaki et al			
↓	5 5 3 0 7 5 9	6/96	Braudaway et al			
↓	5 5 6 1 7 2 4	10/96	Kido et al			
T.H./	5 7 4 8 7 6 3	5/98	Rhoads			

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T.H./	0 5 8 1 3 1 7	2/94	European			
↓	0 6 1 2 0 5 4	8/94	European			
↓	9 5 2 0 2 9 1	7/95	PCT			
T.H./	9 6 4 1 4 6 8	12/96	PCT			

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↓	5 6 3 6 2 9 2	6/97	Rhoads			
↓	5 8 4 8 1 5 5	12/98	Cox			
↓	5 8 5 9 9 2 0	11/99	Doly et al			
/T.H./	5 8 8 9 8 6 8	3/99	Moskowitz et al			

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↓	9 6 2 5 0 0 5	8/96	PCT				
↓	9 7 1 4 2 4 9	4/97	PCT			Eng.Abst.	
↓	0 7 6 6 4 6 6	4/97	European				
↓	0 6 5 1 5 5 4	5/95	European				
/T.H./	9 1 3 0 7 6 6	5/97	Japan				XX

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/T.H./	W. Bender, et al "Data Hiding Technology for Supporting Electronic Watermark (Upper)" Nikkei Electronics, No. 683, 2/24/97, pp. 149-162.
/T.H./	S. Shimizu, et al "Pixel Block Coding for Digital Still Images", IBM Japan, Ltd., Tokyo Research Lab. pp. 257-258.

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/T.H./	9 2 3 8 0 3 1		Japan				XX
/T.H./	0 9 0 1 2 7 6	3/01	European				

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